

ABSTRACT OF THE DISCLOSURE

There is provided a machine tool apparatus provided with coolant supply passages for supplying a coolant in tools or tool mounts for mounting the tools. An oil coated water droplet generator/mixer is connected to the beginning end of the coolant supply passages, and a spray port having a smaller inner diameter than that of the coolant supply passages is connected to the termination end of the coolant supply passages such that the oil coated water droplets generated in an atomized state by the oil coated droplet generator/mixer flow in a liquid state through a coolant supply passages while having a droplet shape on a surface of which in the greater part of oil coated water droplets an oil film is formed and are sprayed again in an atomized state from the spray port. As a result, excessive dispersion of the coolant in the air is restrained in comparison with the case where only oil is sprayed, and satisfactory lubricating and cooling effects are ensured with the minimal quantity of the coolant since the oil coated water droplets adhere to the work surface, and at the same time, excellent workshop environment is provided.